

EENS Job Risk Assessment

Name(s) of Risk Team Members: S. Mitra, B. Bowerman, N.Contos, J. Madaia	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Radiation Generating Device Use (RGD) Job Number or Job Identifier: EENS-JRA-021 JRA Date:	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Use and operation of radiation generating devices (RGDs).	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): SBMS SA	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: Date: 1/31/06 Rev. #: Draft						
Stressors (if applicable, please list all): none		Reason for Revision (if applicable):			Comments:	

				Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction

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				Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Inserting or removing samples	Radiation exposure	Training, shielding, interlocks, enclosure, postings, procedures, Dosimetry, PPE, ESR, RWP, RadCon Manual, Work Planning and Control Documents, RGD SBMS SA	N	1	4	1	1	4								
Operation of device	Radiation exposure	Training, shielding, interlocks, enclosure, postings, procedures, RadCon Manual, Dosimetry, PPE, ESR, RWP, Work Planning and Control Documents, proper maintenance, RGD SBMS SA,	N	1	4	1	1	4								
Use of Radioactive Source Generator	Radiation exposure	Training, shielding, interlocks, enclosure, postings, procedures, RadCon Manual, Dosimetry, PPE, ESR, RWP, Work Planning and Control Documents, RGD SBMS SA, Sealed Radioactive Source SBMS SA	N	1	4	1	1	1								

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				Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
	Spread of radiological contamination	Training, shielding, interlocks, enclosure, postings, procedures, RadCon Manual, Dosimetry, PPE, ESR, RWP, Work Planning and Control Documents, proper maintenance, RGD SBMS SA, Sealed Radioactive Source SBMS SA, semi-annual leak checks	N	1	4	1	1	4								
Maintenance / Alignment	Radiation exposure	Training, shielding, interlocks, enclosure, postings, procedures, RadCon Manual, Dosimetry, PPE, RWP, Work Planning and Control Documents RGD subject area in SBMS, LOTO	N	1	2	1	1	2								
	Electrical Shock	Training, interlocks, postings, procedures, PPE, LOTO, clean working environment, Electrical Safety JRA	N	1	2	2	1	4								
	Cryogenic (LN2)	Training, interlocks, postings, procedures, PPE, LOTO, Cryogenic Safety JRA	N	1	3	4	1	12								

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Further Description of Controls Added to Reduce Risk:					
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate	61 to 80 Substantial	81 or greater Intolerable